

Utilities Program Area Overview

Description:

The projects in the Utilities Program Area provide for the planning, study, design, and construction of water projects to provide adequate and safe water for consumption and fire suppression that meet or exceed environmental, health and safety regulations. The Utilities Program Area also provides for the planning, study, design, and construction of wastewater projects to safely convey and treat wastewater that meet or exceed environmental, health, and safety regulations.

Goal:

To enhance the environment and a sense of community in ways that are responsive to the diverse cultural, social, and physical needs of the people of the City of Rockville, as well as maintain Rockville as a pleasant and desirable city in which to live, work, and play.

Objectives:

- Provide and maintain adequate sewage conveyance facilities to accommodate existing and planned development in an efficient, economical, and environmentally sound manner and to protect human health.
- Maintain water distribution systems and the water treatment plant to accommodate existing and planned development in an efficient, economical, and environmentally sound manner, and to protect human health.

Project Status:

The following projects in the Utilities Program Area are new entries for FY 2009:

- Hydraulic Surge Suppression (210-850-9B34)..... page 116
- Lewis Water Main Upgrade — Phase II (210-850-9C34)..... page 118
- SCADA Assessment (210-850-9D34)..... page 123
- Sewer Main Rehabilitation (210-850-9G34)..... page 130

The following projects have been closed. These projects do not appear in the FY 2009 - 2013 CIP:

- Adclare Road — Water (210-850-9A34)
- Beall Ave/Park Road — Water (210-850-8A34). This project was incorporated into the Water Main Rehabilitation project (210-850-5C34)
- Clean/Line Water Main Program (210-850-3A34). This project was incorporated into the Water Main Rehabilitation project (210-850-5C34)
- Fallsgrove — Water Booster (210-850-2A34)

FY 2009 - 2013 Utilities Appropriation and Funding Schedules

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Air Release Valves	-	-	-	285,000	-	285,000	-	570,000
Blue Plains Wastewater Treatment	19,396,600	415,000	2,024,000	1,192,000	1,407,000	1,991,000	3,555,000	29,980,600
Hydraulic Surge Suppression	-	-	160,000	600,000	-	-	-	760,000
Lewis Water Main Upgrade - Phase I	1,121,000	-	-	-	-	-	-	1,121,000
Lewis Water Main Upgrade - Phase II	-	-	-	-	158,000	1,151,000	-	1,309,000
Meter Replacement — Commercial	1,750,000	-	-	-	-	-	-	1,750,000
Meter Replacements — Residential	1,900,000	-	1,600,000	-	-	-	-	3,500,000
Pump Stations Upgrade	90,000	34,000	-	-	-	-	-	124,000
Rock Creek Wastewater Facility	1,273,360	-	-	-	-	-	5,000,000	6,273,360
SCADA Assessment	-	50,000	50,000	200,000	-	-	-	300,000
Sewer Capacity Study — Cabin John	-	-	-	-	-	-	300,000	300,000
Sewer Capacity Study — Rock Creek	250,000	-	-	-	-	-	-	250,000
Sewer Cap. Study - Watts Branch	-	-	-	-	-	-	300,000	300,000
Sewer Evaluation — Cabin John	565,000	-	-	-	-	-	-	565,000
Sewer Evaluation — Rock Creek	93,975	-	243,000	-	-	-	-	336,975
Sewer Evaluation — Watts Branch	-	-	-	-	550,000	-	-	550,000
Sewer Main Rehabilitation	-	245,000	101,000	367,000	81,000	-	-	794,000
Sewer Rehab — Cabin John	615,000	460,000	-	-	1,000,000	-	-	2,075,000
Sewer Rehab — Rock Creek	1,244,025	-	-	1,657,500	-	-	-	2,901,525
Sewer Rehab — Watts Branch	-	-	494,000	-	-	-	2,470,000	2,964,000
Southlawn Lane Sewer Main	320,000	-	1,041,200	-	-	-	-	1,361,200
Southlawn Lane Water Main	161,000	39,000	482,000	-	-	-	-	682,000
Stonestreet Water Main Upgrade	-	118,000	864,000	-	-	-	-	982,000
Water Distribution Study	253,000	-	-	-	-	-	-	253,000
Water Main Rehabilitation	833,200	2,223,800	3,524,000	3,269,000	2,916,000	3,024,000	58,202,000	73,992,000
Water Plant Generator	465,362	-	-	-	-	-	-	465,362
Water Plant Maintenance and Repair	295,000	460,550	261,200	150,000	100,000	100,000	-	1,366,750
Water Plant Upgrades	259,500	325,000	3,550,000	5,375,000	5,100,000	-	-	14,609,500
Water Pump — Glen Mill Road	3,521,026	-	-	-	-	-	-	3,521,026
Water Tank Assessment	-	250,000	600,000	-	2,000,000	-	-	2,850,000
Total	34,407,048	4,620,350	14,994,400	13,095,500	13,312,000	6,551,000	69,827,000	156,807,298

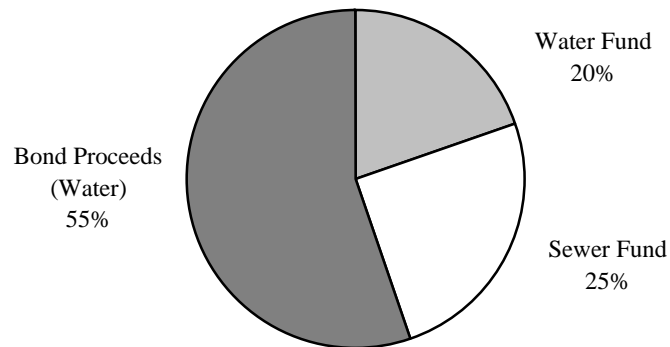
Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	2,464,626	917,550	2,417,200	9,879,000	10,274,000	4,560,000	58,202,000	88,714,376
Bond Proceeds (Water)	6,078,000	2,548,800	8,674,000	-	-	-	-	17,300,800
Developer	315,000	-	-	-	-	-	-	315,000
State Loan	1,701,462	-	-	-	-	-	-	1,701,462
Water Fund Total	10,559,088	3,466,350	11,091,200	9,879,000	10,274,000	4,560,000	58,202,000	108,031,638

Sewer Fund	8,556,960	1,154,000	3,654,000	3,216,500	3,038,000	1,991,000	11,625,000	33,235,460
Bond Proceeds (Sewer)	15,291,000	-	-	-	-	-	-	15,291,000
Special Assessment (Sewer)	-	-	249,200	-	-	-	-	249,200
Sewer Fund Total	23,847,960	1,154,000	3,903,200	3,216,500	3,038,000	1,991,000	11,625,000	48,775,660

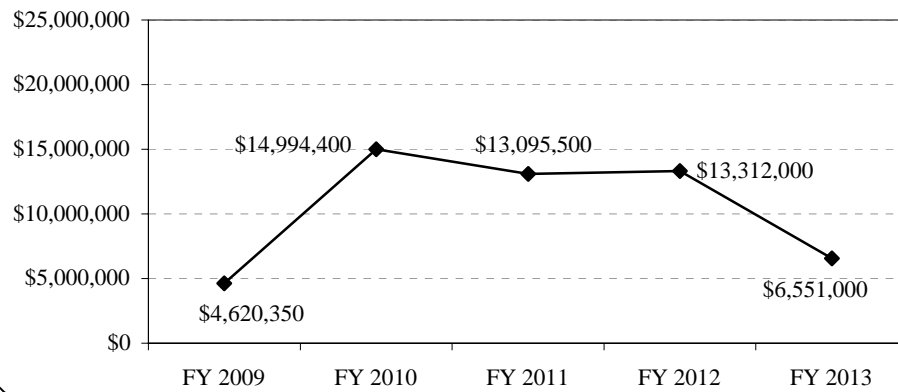
Total	34,407,048	4,620,350	14,994,400	13,095,500	13,312,000	6,551,000	69,827,000	156,807,298
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FY 2009 - 2013 Utilities Funding Schedule

FY 2009 New Funding of \$4,620,350



FY 2009 - FY 2013 New Funding Schedule



FY 2009 Utilities Appropriation Summary

Total FY 2009 Appropriations	Capital Projects	Water	Sewer	SWM	Refuse	Parking	Current Total
Prior Year Appropriations	-	10,559,088	23,847,960	-	-	-	34,407,048
Less Expended as of 03/31/08	-	(5,262,435)	(17,010,946)	-	-	-	(22,273,381)
Prior Year Funds Carried Over	-	5,296,653	6,837,014	-	-	-	12,133,667
Add New Appropriations	-	3,466,350	1,154,000	-	-	-	4,620,350
Total	-	8,763,003	7,991,014	-	-	-	16,754,017

FY 2009 Appropriations by Project	Capital Projects	Water	Sewer	SWM	Refuse	Parking	Current Total
Blue Plains Wastewater Treatment	-	-	4,420,409	-	-	-	4,420,409
Lewis Water Main Upgrade - Phase I	-	1,067,429	-	-	-	-	1,067,429
Meter Replacement — Commercial	-	768,606	-	-	-	-	768,606
Meter Replacements — Residential	-	1,900,000	-	-	-	-	1,900,000
Pump Stations Upgrade	-	-	124,000	-	-	-	124,000
Rock Creek Wastewater Facility	-	-	957,918	-	-	-	957,918
SCADA Assessment	-	50,000	-	-	-	-	50,000
Sewer Capacity Study — Rock Creek	-	-	250,000	-	-	-	250,000
Sewer Evaluation — Cabin John	-	-	454	-	-	-	454
Sewer Main Rehabilitation	-	-	245,000	-	-	-	245,000
Sewer Rehab — Cabin John	-	-	1,045,651	-	-	-	1,045,651
Sewer Rehab — Rock Creek	-	-	689,283	-	-	-	689,283
Southlawn Lane Sewer Main	-	-	258,299	-	-	-	258,299
Southlawn Lane Water Main	-	188,500	-	-	-	-	188,500
Stonestreet Water Main Upgrade	-	118,000	-	-	-	-	118,000
Water Distribution Study	-	45,438	-	-	-	-	45,438
Water Main Rehabilitation	-	2,695,076	-	-	-	-	2,695,076
Water Plant Generator	-	147,456	-	-	-	-	147,456
Water Plant Maintenance and Repair	-	755,550	-	-	-	-	755,550
Water Plant Upgrades	-	451,468	-	-	-	-	451,468
Water Pump — Glen Mill Road	-	325,480	-	-	-	-	325,480
Water Tank Assessment	-	250,000	-	-	-	-	250,000
Total	-	8,763,003	7,991,014	-	-	-	16,754,017

FY 2009 - 2013 Utilities Program Area Summary

OPERATING COST IMPACT

Water Fund	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Air Release Valves	-	-	-	5,000	-	5,000
Hydraulic Surge Suppression	-	-	-	10,000	-	-
Lewis Water Main Upgrade - Phase II	-	-	-	-	-	500
SCADA Assessment	-	-	-	5,000	-	-
Southlawn Lane Water Main	-	-	400	-	-	-
Water Plant Upgrades	-	-	10,000	-	-	-
Water Tank Assessment	-	-	-	5,000	-	-
Total	-	-	10,400	25,000	-	5,500

Sewer Fund	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Pump Stations Upgrade	-	7,900	-	-	-	-
Southlawn Lane Sewer Main	-	-	5,000	-	-	-
Total	-	7,900	5,000	-	-	-

UNFUNDED SCHEDULE

Future Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Total	-	-	-	-	-	-

Project Name: Air Release Valves
Project Number: 210-850-8B34
Program Area: Utilities



Prior Appropriations: -
Add New Appropriations: -
Add Future Appropriations: 570,000
Current Project Total: 570,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: -
Total FY 2009 Appropriations: -

Percent Expended: 0%

Description: This project funds the purchase and installation of new air release valves on the 24" water main that conveys finished water from the Water Treatment Plant to the City's distribution system and within the distribution system. The air release valves protect water mains from water hammer. The existing air release valves are reaching the end of their serviceable life and are in need of replacement.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	-	-	55,000	-	55,000	-	110,000
Construction	-	-	-	230,000	-	230,000	-	460,000
Total	-	-	-	285,000	-	285,000	-	570,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	-	-	-	285,000	-	285,000	-	570,000
Total	-	-	-	285,000	-	285,000	-	570,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	5,000	-	5,000

Explanation of impact: Completion of this project will add \$5,000 to the operating budget beginning in FY 2012 for each set of upgrades to the air release valves to fund maintenance.

Schedule: FY 2011 — Design and construct replacement valve vaults for air release valves; purchase and install new air release valves that are critical. FY 2013 — Design and construct replacement valve vaults for air release valves; purchase and install new air release valves that are less critical.

Status: Concept. This project first appeared in the FY 2008 CIP.

Coordination: Adjacent neighborhoods; Water Plant Upgrades project (210-850-4A40); Hydraulic Surge Suppression project (210-850-9B34).

Staff contact: Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.

Project Name: Blue Plains Wastewater Treatment
Project Number: 220-850-3D45
Program Area: Utilities



Prior Appropriations: 19,396,600
Add New Appropriations: 415,000
Add Future Appropriations: 10,169,000
Current Project Total: 29,980,600

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 19,396,600
Less Expended: 15,391,191
Prior Year Funds Carried Over: 4,005,409
Add New Appropriations: 415,000
Total FY 2009 Appropriations: 4,420,409

Percent Expended: 51%

Description: This project represents the City's share of costs to upgrade and enhance the wastewater treatment and solids handling facilities at the Blue Plains Wastewater Treatment Plant (BPWWTP), which is owned and operated by the District of Columbia Water and Sewer Authority (DC WASA). All of Rockville's wastewater is conveyed through Washington Suburban Sanitary Commission (WSSC) system for treatment at the BPWWTP, which has a total treatment capacity of 370 million gallons per day (mgd). WSSC's allocated capacity is 169.6 mgd, of which Rockville is allocated 9.31 mgd. WSSC has four projects, which support many individual DC WASA CIP projects. As new projects are approved by DC WASA, costs are added to this project. The amounts listed represent Rockville's share (at 5.5 percent) of WSSC total costs. The WSSC share is approximately 46 percent of the Blue Plains costs in accordance with the *1985 Inter-Municipal Agreement*. This project provides required sewage treatment capacity to serve the City's expansion needs through buildout. There are two main project categories: implement environmental regulations, and systems maintenance and reinforcement.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Construction	19,396,600	415,000	2,024,000	1,192,000	1,407,000	1,991,000	3,555,000	29,980,600
Total	19,396,600	415,000	2,024,000	1,192,000	1,407,000	1,991,000	3,555,000	29,980,600

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	4,105,600	415,000	2,024,000	1,192,000	1,407,000	1,991,000	3,555,000	14,689,600
Bond Proceeds (Sewer)	15,291,000	-	-	-	-	-	-	15,291,000
Total	19,396,600	415,000	2,024,000	1,192,000	1,407,000	1,991,000	3,555,000	29,980,600

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

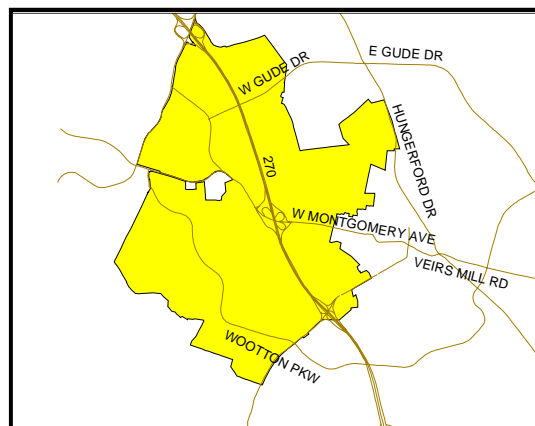
Schedule: This project funds the City's share of costs for WSSC project numbers S-22.06 Liquid Train projects; S-22.07 Biosolids Management; S-22.08 Biological Nutrient Removal; and S-22.09 Plant-wide projects, all of which provide upgrades and enhancements to the wastewater treatment and solids handling facilities at the Blue Plains Wastewater Treatment Plant. Note: FY 2009 funding is lower than previously anticipated due to accumulated prior appropriations. Funding is sufficient for the City's share of cost projections and is in line with WSSC.

Status: Implementation. This project first appeared in the FY 2003 CIP.

Coordination: WSSC Blue Plains Projects S-22.06, S-22.07, S-22.08, and S-22.09.

Staff contact: Department of Public Works. Susan Straus, Chief Engineer/Environment, 240-314-8500.

Project Name: Hydraulic Surge Suppression
Project Number: 210-850-9B34
Program Area: Utilities



Prior Appropriations: -
Add New Appropriations: -
Add Future Appropriations: 760,000
Current Project Total: 760,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: -
Total FY 2009 Appropriations: -
Percent Expended: 0%

Description: This project funds the design and construction of a surge suppression system which is necessary to protect the City's 24" water supply main. Improvements may include the installation of hydropneumatic surge tanks at the Water Treatment Plant and the Glen Mill Pump Station, the checking of valves and pressure relief lines at the Glen Mill Pump Station, and modifications to the SCADA system. The need for hydraulic surge suppression was identified during the construction of the Glen Mill Pump Station.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	-	160,000	-	-	-	-	160,000
Construction	-	-	-	600,000	-	-	-	600,000
Total	-	-	160,000	600,000	-	-	-	760,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	-	-	160,000	600,000	-	-	-	760,000
Total	-	-	160,000	600,000	-	-	-	760,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	10,000	-	-

Explanation of impact: The completion of this project will add \$10,000 to the FY 2012 operating budget to fund repairs and maintenance to the surge suppression equipment.

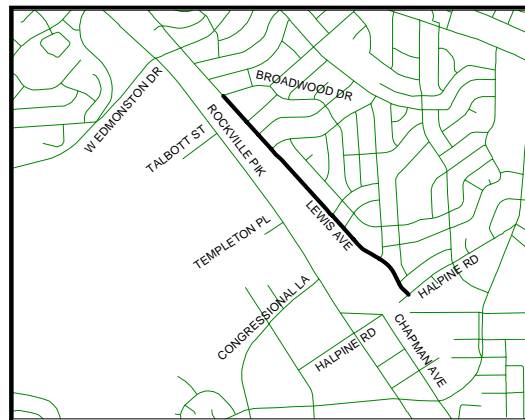
Schedule: FY 2010 — Design surge suppression upgrades in conjunction with air release valves. FY 2011 — Construct surge suppression upgrades.

Status: Concept. This is a new project for the FY 2009 CIP.

Coordination: Adjacent Neighborhoods; Water Plant Upgrades project (210-850-4A40); Water Plant Maintenance and Repair project (210-850-8A84); SCADA Assessment project (210-850-9D34); Air Release Valves project (210-850-8B34); Water Pump — Glen Mill Road (210-850-9H34).

Staff Contact: Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.

Project Name: Lewis Water Main Upgrade - Phase I
Project Number: 210-850-9F34
Program Area: Utilities



Prior Appropriations: 1,121,000
Add New Appropriations: -
Add Future Appropriations: -
Current Project Total: 1,121,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 1,121,000
Less Expended: 53,571
Prior Year Funds Carried Over: 1,067,429
Add New Appropriations: -
Total FY 2009 Appropriations: 1,067,429

Percent Expended: 5%

Description: Lewis Avenue water main will be upgraded in two phases; Phase I is south (Broadwood Drive to Halpine Road) and Phase II is north (Edmonston Drive to Broadwood Drive and Norbeck Road to Edmonston Drive). This project funds the design and construction of Phase I which is approximately 4,600 feet of 12-inch water main in Lewis Avenue to replace the existing 8-inch water main. This project was identified by the *1994 Pitometer Water System Report*. This project improves fire flows as well as the reliability of water service to this area.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	154,000	-	-	-	-	-	-	154,000
Construction	967,000	-	-	-	-	-	-	967,000
Total	1,121,000	-	-	-	-	-	-	1,121,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	656,000	-	-	-	-	-	-	656,000
Bond Proceeds (Water)	150,000	-	-	-	-	-	-	150,000
Developer	315,000	-	-	-	-	-	-	315,000
Total	1,121,000	-	-	-	-	-	-	1,121,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

Schedule: FY 2009 — Complete construction. Note: Construction began in April 2008. Construction completion is anticipated in fall 2008.

Status: Construction. This project first appeared in the FY 1999 CIP and was re-assessed in FY 2005. The developer of the adjacent property (Twinbrook Station) has provided partial funding for construction. This street is on the asphalt maintenance schedule for FY 2009; however, water main work will precede the asphalt maintenance. Construction will begin in April 2008 and construction completion is anticipated in fall 2008.

Coordination: Adjacent Neighborhoods; Development Review Committee; Water Distribution Study project (210-850-3B34); Lewis Water Main Upgrade — Phase II project (210-850-9C34); Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area.

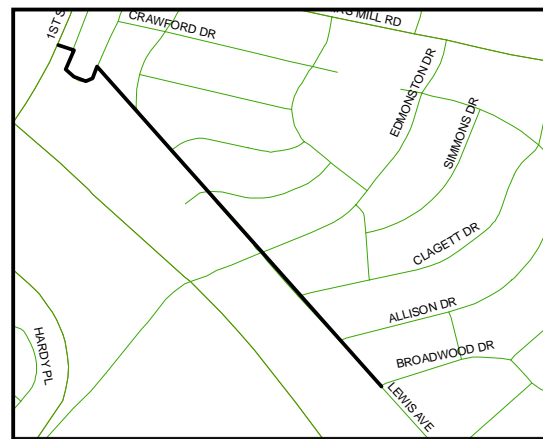
Staff contact: Department of Public Works. John W. Hollida, Civil Engineer II, 240-314-8500.

Project Name: Lewis Water Main Upgrade - Phase II
Project Number: 210-850-9C34
Program Area: Utilities

Prior Appropriations: -
Add New Appropriations: -
Add Future Appropriations: 1,309,000
Current Project Total: 1,309,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: -
Total FY 2009 Appropriations: -
Percent Expended: 0%



Description: Lewis Avenue water main upgrades will be in two phases; Phase I is south (Broadwood Drive to Halpine Road) and Phase II is north (Edmonston Drive to Broadwood Drive and Norbeck Road to Edmonston Drive). This project funds the design and construction of Phase II which is approximately 1,200 feet of 12-inch water main in Lewis Avenue from Edmonston Drive to Broadwood Drive, 2,200 feet of 16-inch water main from Norbeck Road (MD28) to Edmonston Drive to replace existing 8-inch water mains and the design and construction of a pressure reducing valve (PRV) and vault near the Lewis Avenue and Broadwood Road intersection. The PRV is needed to enhance supply reliability and provide additional fire flow for the southeastern low zone (Twinbrook area). These projects are identified in the 2008 Water Distribution Master Plan. This project improves supply, fire flows as well as the reliability of water service to this area.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	-	-	-	158,000	105,000	-	263,000
Construction	-	-	-	-	-	1,046,000	-	1,046,000
Total	-	-	-	-	158,000	1,151,000	-	1,309,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	-	-	-	-	158,000	1,151,000	-	1,309,000
Total	-	-	-	-	158,000	1,151,000	-	1,309,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	500

Explanation of impact: The completion of this project will add \$500 to the FY 2014 operating budget to fund maintenance and operation of the pressure reducing valve.

Schedule: FY 2012 — Design Lewis Avenue Phase II water system upgrades. FY 2013 — Construct Lewis Avenue Phase II upgrades.

Status: Concept. This is a new project for the FY 2009 CIP.

Coordination: Adjacent Neighborhoods; Development Review Committee; Water Distribution Study project (210-850-3B34); Lewis Water Main Upgrade — Phase I project (210-850-9F34); Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area.

Staff Contact: Department of Public Works. John W. Hollida, Civil Engineer II, 240-314-8500.

Project Name: Meter Replacement — Commercial
Project Number: 210-700-7B34
Program Area: Utilities

8



Prior Appropriations: 1,750,000
Add New Appropriations: -
Add Future Appropriations: -
Current Project Total: 1,750,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 1,750,000
Less Expended: 981,394
Prior Year Funds Carried Over: 768,606
Add New Appropriations: -
Total FY 2009 Appropriations: 768,606

Percent Expended: 56%

Description: This project funds replacement of 700 commercial water meters with Sensus radio-read water meters. The meters will be replaced by a combination of Public Works personnel and outside contractors to achieve the most cost-efficient program.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Construction	1,750,000	-	-	-	-	-	-	1,750,000
Total	1,750,000	-	-	-	-	-	-	1,750,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Bond Proceeds (Water)	1,750,000	-	-	-	-	-	-	1,750,000
Total	1,750,000	-	-	-	-	-	-	1,750,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project is expected to generate additional revenue; however, the amount is unknown at this time.

Schedule: Prior year work to be completed — Replacement of commercial water meters is substantially complete. The outstanding meters to be replaced include the Falls Grove Multi Modal Center and the Montgomery County Detention Center. New meter installation is planned for the Rockville Swim Center and the Gude Maintenance Facility.

Status: Construction. This project, formerly called Water Meter Replacement, first appeared in the FY 2007 CIP.

Coordination: Citywide Neighborhoods; Finance Department.

Staff Contact: Department of Public Works. Ilene Lish, Civil Engineer II, 240-314-8500.

Project Name: Meter Replacements — Residential
Project Number: 210-850-8C34
Program Area: Utilities

8



Prior Appropriations: 1,900,000
Add New Appropriations: -
Add Future Appropriations: 1,600,000
Current Project Total: 3,500,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 1,900,000
Less Expended: -
Prior Year Funds Carried Over: 1,900,000
Add New Appropriations: -
Total FY 2009 Appropriations: 1,900,000

Percent Expended: 0%

Description: This project funds replacement of more than 11,000 residential water meters with Sensus radio-read water meters. The meters will be replaced by a combination of Public Works and Finance personnel and outside contractors to achieve the most cost-efficient program.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Construction	1,900,000	-	1,600,000	-	-	-	-	3,500,000
Total	1,900,000	-	1,600,000	-	-	-	-	3,500,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Bond Proceeds (Water)	1,900,000	-	1,600,000	-	-	-	-	3,500,000
Total	1,900,000	-	1,600,000	-	-	-	-	3,500,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project is expected to generate additional revenue; however, the amount is unknown at this time.

Schedule: FY 2009 through FY 2010 — Replace residential water meters.

Status: Concept. This project first appeared in the mid-year FY 2008 CIP. Formerly, the residential phase of the meter replacement program was included in the former Water Meter Replacement (210-700-7B34); however, beginning in FY 2009, the residential and commercial meter replacement programs have been separated for tracking purposes.

Coordination: Neighborhood Resource Coordinators; neighborhoods throughout the City.

Staff Contact: Department of Public Works. Ilene Lish, Civil Engineer II, 240-314-8500.

Project Name: Pump Stations Upgrade
Project Number: 220-850-4C34
Program Area: Utilities



Prior Appropriations: 90,000
Add New Appropriations: 34,000
Add Future Appropriations: -
Current Project Total: 124,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 90,000
Less Expended: -
Prior Year Funds Carried Over: 90,000
Add New Appropriations: 34,000
Total FY 2009 Appropriations: 124,000

Percent Expended: 0%

Description: The City has two wastewater pump stations, Horners and Fallsgrove. The Maryland Department of the Environment requires that the Horners Pump Station have emergency back-up power generation. This project funds the purchase and installation of an emergency bypass pump. The pump will provide both electrical and mechanical backup in the event of a pump or power failure. Included with this project is the planting of landscaping near the Horners Pump Station to screen the bypass pump and existing pump station from the surrounding area. Also included in this project are safety improvements around the wet well at the Fallsgrove Pump Station and modifications to the piping arrangement on the force main to allow for a more efficient bypass pump connection in the event of a pump or power failure.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	34,000	-	-	-	-	-	-	34,000
Construction	56,000	34,000	-	-	-	-	-	90,000
Total	90,000	34,000	-	-	-	-	-	124,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	90,000	34,000	-	-	-	-	-	124,000
Total	90,000	34,000	-	-	-	-	-	124,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	7,900	-	-	-	-

Explanation of impact: The completion of this project will add \$7,900 to the FY 2010 operating budget to fund fuel costs for the backup pumps and maintenance contracts for both pump stations.

Schedule: Prior year work to be completed — purchase a new bypass pump system. FY 2009 — Construct concrete pad; construct pipe and electrical connections; install bypass pump and connect to the Horners Pump Station; install landscaping for screening around the Horners Pump Station and bypass pump; complete the upgrades to the Fallsgrove Pump Station.

Status: Implementation. This project, formally called Horners Pump Station Upgrade, first appeared in the FY 2004 CIP. Pipe and electrical connections need to be designed and constructed prior to installation of the bypass system at the Horners Pump Station.

Coordination: Maryland Department of the Environment; Lincoln Park Civic Association (LPCA).

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8521.

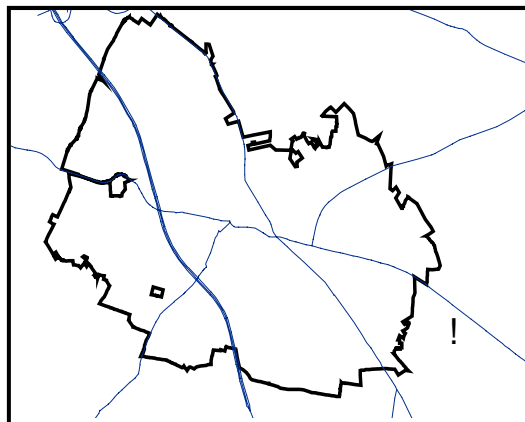
Project Name: Rock Creek Wastewater Facility
Project Number: 220-850-2A45
Program Area: Utilities

Prior Appropriations: 1,273,360
Add New Appropriations: -
Add Future Appropriations: 5,000,000
Current Project Total: 6,273,360

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 1,273,360
Less Expended: 315,442
Prior Year Funds Carried Over: 957,918
Add New Appropriations: -
Total FY 2009 Appropriations: 957,918

Percent Expended: 5%



Description: The project funds design and construction improvements to Washington Suburban Sanitary Commission's (WSSC) Rock Creek storage facility, a relief sewer between Veirs Mill and Randolph Roads, and a new storage facility (beyond this five-year CIP, if needed). Rockville's portion, 24 percent of WSSC's total construction cost, is based on the City's share of the wastewater flow in Rock Creek. These improvements were recommended by WSSC's *Rock Creek Wastewater Facility Plan* so WSSC can handle the excess sewage flows that will exceed the 1985 *Inter-Municipal Agreement* limit of 56.6 million gallons per day (MGD) at the District line, improve the operation of the existing storage facility, and relieve pipeline capacity constraints.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Construction	1,273,360	-	-	-	-	-	5,000,000	6,273,360
Total	1,273,360	-	-	-	-	-	5,000,000	6,273,360

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	1,273,360	-	-	-	-	-	5,000,000	6,273,360
Total	1,273,360	-	-	-	-	-	5,000,000	6,273,360

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget. Operating costs will be borne by WSSC.

Schedule: Prior year work to be completed — Waiting for final invoices from WSSC. Future Yrs. — Payment to WSSC for Rockville's share of a storage facility that will accommodate wastewater flows in Rock Creek.

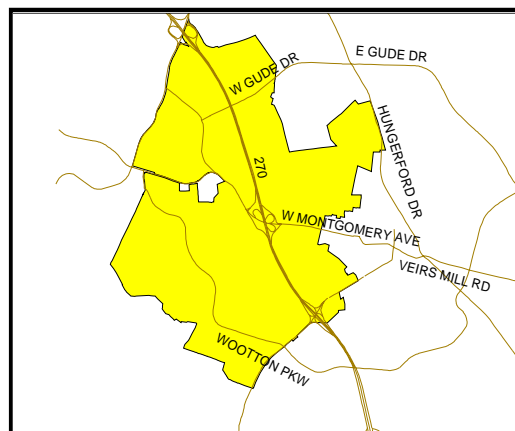
Status: Construction. This project first appeared in the FY 2002 CIP. Based on recent analysis of future flow projection, the WSSC plan recommends constructing a limited amount of relief sewer now and delaying the construction of a new storage facility. Therefore, the new storage facility is programmed to start beyond the City's five-year program to allow time for WSSC to implement and assess their infiltration and inflow reduction programs. Rockville's share of the new storage facility is approximately \$5 million which is based on the 24 percent share of wastewater flow in the WSSC sewer in the Rock Creek Basin.

Coordination: WSSC project S-49.15.

Staff contact: Department of Public Works. John W. Hollida, Civil Engineer II, 240-314-8500.

Project Name: SCADA Assessment
Project Number: 210-850-9D34
Program Area: Utilities

8



Prior Appropriations: -
Add New Appropriations: 50,000
Add Future Appropriations: 250,000
Current Project Total: 300,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: 50,000
Total FY 2009 Appropriations: 50,000
Percent Expended: 0%

Description: This project funds the analysis, design, and construction of improvements to the City's System Control and Data Acquisition (SCADA) system. Improvements to the SCADA system will allow the City to operate and manage the water supply system more effectively.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	50,000	50,000	-	-	-	-	100,000
Construction	-	-	-	200,000	-	-	-	200,000
Total	-	50,000	50,000	200,000	-	-	-	300,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	-	50,000	50,000	200,000	-	-	-	300,000
Total	-	50,000	50,000	200,000	-	-	-	300,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	5,000	-	-

Explanation of impact: The completion of this project will add \$5,000 to the FY 2012 operating budget to fund maintenance and operation of the SCADA system.

Schedule: FY 2009 — Resolve on-going technical issues at the water tanks and pump stations. FY 2010 — Analyze and test the SCADA System and begin design of system-wide improvements. FY 2011 — Construct SCADA upgrades.

Status: Design. This is a new project for the FY 2009 CIP.

Coordination: Adjacent Neighborhoods; Water Plant Upgrades project (210-850-4A40); Water Plant Maintenance and Repair project (210-850-8A84); Hydraulic Surge Suppression project (210-850-9B34).

Staff Contact: Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.

Project Name: Sewer Capacity Study — Cabin John
Project Number: 220-850-8A45
Program Area: Utilities

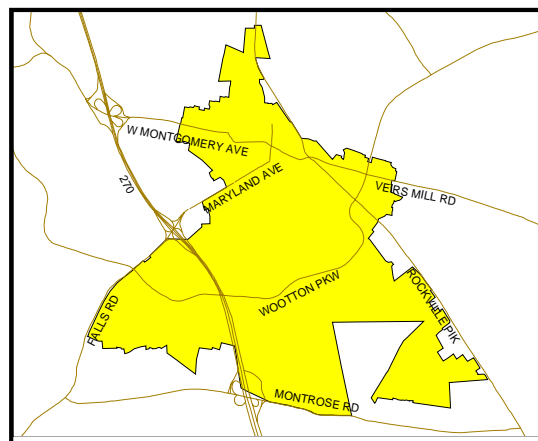
Prior Appropriations: -
Add New Appropriations: -
Add Future Appropriations: 300,000
Current Project Total: 300,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: -
Total FY 2009 Appropriations: -

Percent Expended: 0%

8



Description: This project funds the development and analysis of a comprehensive hydraulic sanitary sewer model for the City's Cabin John Sewer Basin. Such analysis is necessary to determine the adequacy of the capacity of the sanitary sewer system created by aging pipes and new development occurring throughout the City. This project identifies inadequacies in the capacity of the system, determines the allowable future capacity in the existing system, and determines areas of required upgrades to support future development. The project also creates a schedule to implement required future improvements in conjunction with the results of the Sanitary Sewer Evaluation Survey (SSES) and Infiltration and Inflow (I/I) analysis completed in the Cabin John Sewer Basin.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	-	-	-	-	-	300,000	300,000
Total	-	-	-	-	-	-	300,000	300,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	-	-	-	-	-	-	300,000	300,000
Total	-	-	-	-	-	-	300,000	300,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: Operating costs should decrease; however, the amount of the reduction cannot be determined until the SSES and I/I analysis is completed.

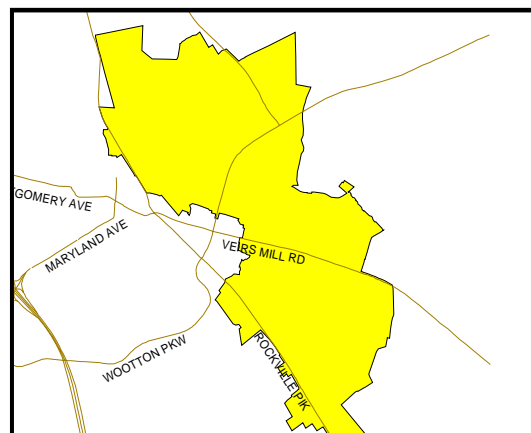
Schedule: Future Years — Begin survey of Cabin John Sewer Basin; quantify existing flows, quantify future flows from population projections, and develop recommendations to rectify capacity constraints in the sanitary sewer system.

Status: Concept. This project first appeared in the FY 2008 CIP.

Coordination: Adjacent Neighborhoods; Maryland Department of the Environment; Army Corps of Engineers; Development Review Committee; Sewer Rehabilitation — Cabin John project (220-850-4A45); Sewer Evaluation — Cabin John project (220-850-3F45); Cabin John — Lower Stream project (330-850-8A59) in the SWM Program Area; Sewer Capacity Study — Rock Creek project (220-850-8B45); Sewer Capacity Study — Watts Branch project (220-850-8C45).

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8500.

Project Name: Sewer Capacity Study — Rock Creek
Project Number: 220-850-8B45
Program Area: Utilities



Prior Appropriations: 250,000
Add New Appropriations: -
Add Future Appropriations: -
Current Project Total: 250,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 250,000
Less Expended: -
Prior Year Funds Carried Over: 250,000
Add New Appropriations: -
Total FY 2009 Appropriations: 250,000

Percent Expended: 0%

Description: This project funds the development and analysis of a comprehensive hydraulic sanitary sewer model for the City's Rock Creek Sewer Basin as well as updating the City's sewer modeling software. Such analysis is necessary to determine the adequacy of the capacity of the sanitary sewer system created by aging pipes and new development occurring throughout the City. This project identifies inadequacies in the capacity of the system, determines the allowable future capacity in the existing system, and determines areas of required upgrades to support future development. The project also creates a schedule to implement required future improvements in conjunction with the results of the Sanitary Sewer Evaluation Survey (SSES) and Infiltration and Inflow (I/I) analysis completed in the Rock Creek Sewer Basin.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	250,000	-	-	-	-	-	-	250,000
Total	250,000	-	-	-	-	-	-	250,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	250,000	-	-	-	-	-	-	250,000
Total	250,000	-	-	-	-	-	-	250,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: Operating costs should decrease; however, the amount of the reduction cannot be determined until the SSES and I/I analysis is completed.

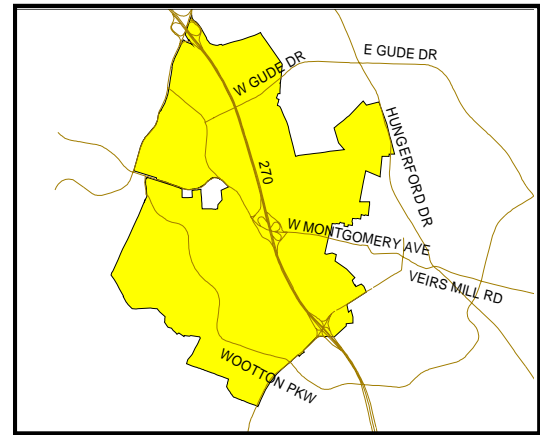
Schedule: FY 2009 — Begin survey of Rock Creek Sewer Basin; purchase hydraulic modeling software and begin to quantify existing flows; quantify future flows from population projections and develop recommendations to rectify capacity constraints in the sanitary sewer system.

Status: Design. This project first appeared in the FY 2008 CIP.

Coordination: Adjacent Neighborhoods; Maryland Department of the Environment; Army Corps of Engineers; Development Review Committee; Sewer Evaluation — Rock Creek project (220-850-0A45); Sewer Rehabilitation — Rock Creek project (220-850-0B45); Sewer Capacity Study — Cabin John project (220-850-8A45); Sewer Capacity Study — Watts Branch project (220-850-8C45).

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8500.

Project Name: Sewer Cap. Study - Watts Branch
Project Number: 220-850-8C45
Program Area: Utilities



Prior Appropriations: -
Add New Appropriations: -
Add Future Appropriations: 300,000
Current Project Total: 300,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: -
Total FY 2009 Appropriations: -

Percent Expended: 0%

Description: This project funds the development and analysis of a comprehensive hydraulic sanitary sewer model for the City's Watts Branch Sewer Basin. Such analysis is necessary to determine the adequacy of the capacity of the sanitary sewer system created by aging pipe and new development occurring throughout the City. This project identifies inadequacies in the capacity of the system, determines the allowable future capacity in the existing system, and determines areas of required upgrades to support future development. The project also creates a schedule to implement required future improvements in conjunction with the results of the Sanitary Sewer Evaluation Survey (SSES) and Infiltration and Inflow (I/I) analysis completed in the Watts Branch Sewer Basin.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	-	-	-	-	-	300,000	300,000
Total	-	-	-	-	-	-	300,000	300,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	-	-	-	-	-	-	300,000	300,000
Total	-	-	-	-	-	-	300,000	300,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: Operating costs should decrease; however, the amount of the reduction cannot be determined until the SSES and I/I analysis is completed.

Schedule: Future Years — Begin survey of Watts Branch Sewer Basin; quantify existing flows, quantify future flows from population projections, and develop recommendations to rectify capacity constraints in the sanitary sewer system.

Status: Concept. This project first appeared in the FY 2008 CIP.

Coordination: Adjacent Neighborhoods; Maryland Department of the Environment; Army Corps of Engineers; Development Review Committee; Sewer Evaluation — Watts Branch project (220-850-7A45); Sewer Rehabilitation — Watts Branch project (220-850-7B45); Woodley Gardens Stream project (330-850-2G59) in the SWM Program Area; Sewer Capacity Study — Cabin John project (220-850-8A45); Sewer Capacity Study — Rock Creek project (220-850-8B45).

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8500.

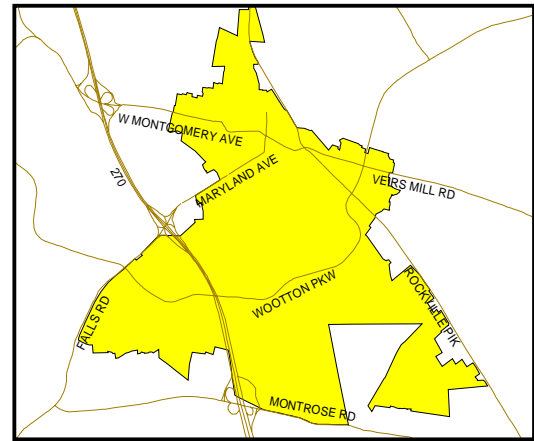
Project name: Sewer Evaluation — Cabin John
Project number: 220-850-3F45
Program area: Utilities

Prior Appropriations: 565,000
Add New Appropriations: -
Add Future Appropriations: -
Current Project Total: 565,000

Status of Prior Year Appropriations as of 03/31/08:
Prior Year Appropriations: 565,000
Less Expended: 564,546
Prior Year Funds Carried Over: 454
Add New Appropriations: -
Total FY 2009 Appropriations: 454

Percent Expended: 100%

8



Description: This project funds a Sanitary Sewer Evaluation Survey (SSES) and an Infiltration and Inflow (I/I) analysis performed by an engineer consulting firm on the Cabin John Sewer Basin, which systematically identifies the condition of the sewer system and develops comprehensive rehabilitation methods. Field work includes smoke testing, manhole inspections, light cleaning, closed-circuit television, and dye testing. Rockville will participate in a larger SSES and I/I Analysis conducted by WSSC. System rehabilitation reduces I/I, which decreases the flow in the Rockville and WSSC sewers, and ultimately the flow to the Blue Plains Wastewater Treatment Plant. Under the terms of the 1956 agreement between Rockville and WSSC, Rockville's peak wastewater flow is limited to 6.8 million gallons per day (MGD) in the Cabin John Sewer Basin. Ultimate development, as projected in the City's Master Plan, will exceed the 6.8 MGD limit; however, a 15 to 20 percent reduction in I/I may maintain flows below the 6.8 MGD limit. System repair and rehabilitation work are implemented in the Sewer Rehabilitation — Cabin John project (220-850-4A45).

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	565,000	-	-	-	-	-	-	565,000
Total	565,000	-	-	-	-	-	-	565,000

Funding Schedule	Prior Funding	New Approps	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	565,000	-	-	-	-	-	-	565,000
Total	565,000	-	-	-	-	-	-	565,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

Schedule: Prior year work to be completed — Finalize report on the Sanitary Sewer Evaluation Survey (SSES).

Status: Final draft report. This project first appeared in the FY 2003 CIP.

Coordination: Adjacent Neighborhoods; Neighborhood Resource Team; WSSC; Sewer Rehabilitation — Cabin John project (220-850-4A45); Sewer Capacity Study — Cabin John project (220-850-8A45).

Staff contact: Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.

Project Name: Sewer Evaluation — Rock Creek
Project Number: 220-850-0A45
Program Area: Utilities

Prior Appropriations: 93,975
Add New Appropriations: -
Add Future Appropriations: 243,000
Current Project Total: 336,975

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 93,975
Less Expended: 93,975
Prior Year Funds Carried Over: -
Add New Appropriations: -
Total FY 2009 Appropriations: -

Percent Expended: 28%

Description: This project funds the monitoring, Sanitary Sewer Evaluation Survey (SSES), Infiltration and Inflow analysis (I/I), and design of rehabilitation projects in the Rock Creek Sewer Basin. This project is divided into two sections: Lower Rock Creek and Upper Rock Creek. The SSES and I/I analysis systematically identify the condition of the sewer system and comprehensive rehabilitation methods to cost-effectively repair the system. System rehabilitation reduces I/I thus decreasing the load on Rockville and Washington Suburban Sanitary Commission (WSSC) sewers and decreasing the flow to the Blue Plains Wastewater Treatment Plant. System repairs and rehabilitation work are implemented in the Sewer Rehabilitation — Rock Creek project (220-850-0B45).

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	93,975	-	243,000	-	-	-	-	336,975
Total	93,975	-	243,000	-	-	-	-	336,975

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	93,975	-	243,000	-	-	-	-	336,975
Total	93,975	-	243,000	-	-	-	-	336,975

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

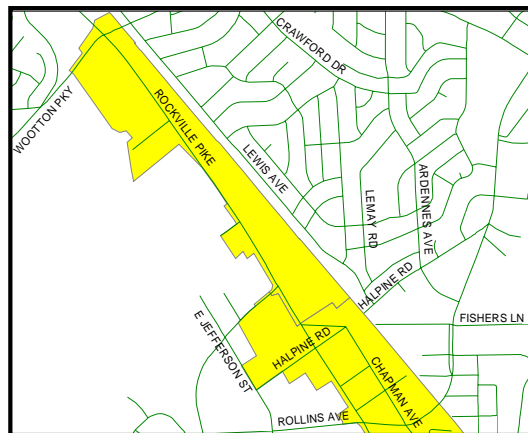
Schedule: Prior year work to be completed — Lower Rock Creek SSES and I/I analysis projects (Twinbrook and Rockville Pike). FY 2010 — Upper Rock Creek SSES and I/I analysis.

Status: Implementation. This project first appeared in the FY 1990 CIP.

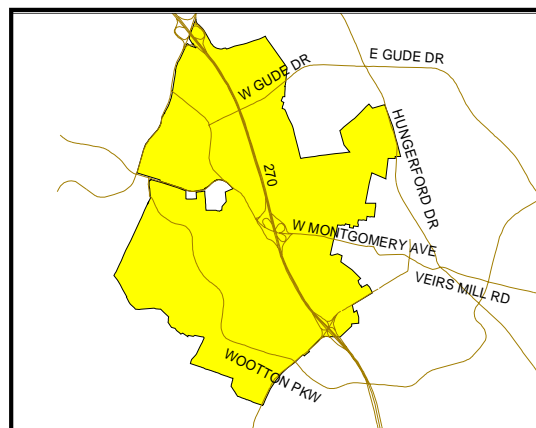
Coordination: Adjacent Neighborhoods; Maryland Department of the Environment; Army Corps of Engineers; Development Review Committee; Sewer Rehabilitation — Rock Creek project (220-850-0B45); Sewer Capacity Study — Rock Creek project (220-850-8B45).

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8500.

8



Project Name: Sewer Evaluation — Watts Branch
Project Number: 220-850-7A45
Program Area: Utilities



Prior Appropriations: -
Add New Appropriations: -
Add Future Appropriations: 550,000
Current Project Total: 550,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: -
Total FY 2009 Appropriations: -

Percent Expended: 0%

Description: This project funds the monitoring, Sanitary Sewer Evaluation Survey (SSES), Infiltration and Inflow analysis (I/I), and design of rehabilitation projects in the Watts Branch Sewer Basin. The SSES and I/I analysis systematically identify the condition of the sewer system and comprehensive rehabilitation methods to cost-effectively repair the system. System rehabilitation reduces I/I thus decreasing the load on Rockville's and the Washington Suburban Sanitary Commission's (WSSC) sewers and decreasing the flow to the Blue Plains Wastewater Treatment Plant. System repairs and rehabilitation work are implemented through the Sewer Rehabilitation — Watts Branch project (220-850-7B45).

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	-	-	-	550,000	-	-	550,000
Total	-	-	-	-	550,000	-	-	550,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	-	-	-	-	550,000	-	-	550,000
Total	-	-	-	-	550,000	-	-	550,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

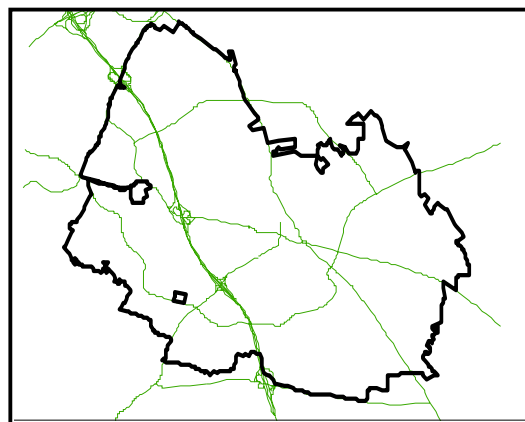
Schedule: FY 2012 — SSES and I/I analysis.

Status: Concept. This project first appeared in the FY 2007 CIP.

Coordination: Adjacent Neighborhoods; Maryland Department of the Environment; Army Corps of Engineers; Development Review Committee; Sewer Rehabilitation — Watts Branch project (220-850-7B45); Sewer Capacity Study — Watts Branch project (220-850-8C45); Woodley Gardens Stream project (330-850-2G59) in the SWM Program Area.

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8500.

Project Name: Sewer Main Rehabilitation
Project Number: 220-850-9G34
Program Area: Utilities



Prior Appropriations: -
Add New Appropriations: 245,000
Add Future Appropriations: 549,000
Current Project Total: 794,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: 245,000
Total FY 2009 Appropriations: 245,000
Percent Expended: 0%

Description: This project funds the design and construction of various sewer system improvements not identified in the Sewer System Evaluation Survey (SSES) and will replace substandard Rockville sewer pipe not located in City easements. Specific pipe rehabilitation projects are primarily identified by City maintenance crews and cover such items as Orangeburg pipe replacement. On-going rehabilitation is needed to replace old infrastructure, pipes made of Orangeburg material, and pipes that require a high level of maintenance and cleaning. Orangeburg pipe is made up of wood and coal tar manufactured in Orangeburg, New York. The City's Orangeburg sewer pipe installed in the mid 1900's has been prone to leaks, breaks, and sewer back-ups.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	83,000	10,000	47,000	8,000	-	-	148,000
Construction	-	162,000	91,000	320,000	73,000	-	-	646,000
Total	-	245,000	101,000	367,000	81,000	-	-	794,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	-	245,000	101,000	367,000	81,000	-	-	794,000
Total	-	245,000	101,000	367,000	81,000	-	-	794,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

Schedule: FY 2009 — Construct South Stonestreet, Mapleton Avenue, and Blandford Street improvements; design Great Falls Road/Dale Drive, and Grandin Avenue sewer upgrade. FY 2010 — Construct Grandin Avenue improvements. FY 2011 — Construct Great Falls Road/Dale Drive improvements; design Veirs Mill Drive upgrade. FY 2012 — Construct Veirs Mill Drive improvements.

Status: Implementation. This is a new project for the FY 2009 CIP.

Coordination: Adjacent Neighborhoods; Development Review Committee; Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area.

Staff Contact: Department of Public Works. John W. Hollida, Civil Engineer II, 240-314-8500.

Project Name: Sewer Rehab — Cabin John
Project Number: 220-850-4A45
Program Area: Utilities

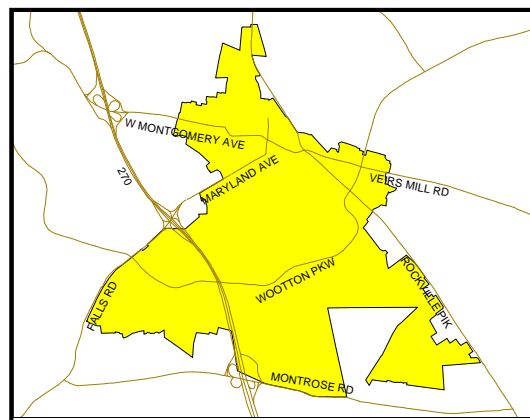
Prior Appropriations: 615,000
Add New Appropriations: 460,000
Add Future Appropriations: 1,000,000
Current Project Total: 2,075,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 615,000
Less Expended: 29,349
Prior Year Funds Carried Over: 585,651
Add New Appropriations: 460,000
Total FY 2009 Appropriations: 1,045,651

Percent Expended: 1%

8



Description: This project funds system improvements recommended through the Sewer System Evaluation Survey (SSES) and an Infiltration and Inflow (I/I) analysis in the Cabin John Sewer Basin. The SSES and I/I analysis systematically identify the condition of the sewer system and provide comprehensive rehabilitation methods. I/I consists of rain and groundwater that enter the sewer system through surface runoff or structural defects within the sewer pipe and manholes. Excessive I/I reduces the capacity of the sewer pipe available to convey sanitary sewage. System rehabilitation improves the condition of the sewer system, which increases the life cycle of the infrastructure and reduces I/I, which decreases the flow in the Rockville and Washington Suburban Sanitary Commission (WSSC) sewers, and ultimately the flow to the Blue Plains Wastewater Treatment Plant. Typical repairs consist of heavy cleaning and subsequent lining of the sewers with a cured in place liner; point repairs to lateral connections and various manhole rehabilitation methods. This project also funds the design and replacement of sewer segments that have been identified as in poor structural condition by the SSES.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	200,000	100,000	-	-	200,000	-	-	500,000
Construction	415,000	360,000	-	-	800,000	-	-	1,575,000
Total	615,000	460,000	-	-	1,000,000	-	-	2,075,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	615,000	460,000	-	-	1,000,000	-	-	2,075,000
Total	615,000	460,000	-	-	1,000,000	-	-	2,075,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: Operating costs should decrease; however, the amount and timing cannot be determined until the SSES and I/I analysis are completed.

Schedule: Prior years work to be completed — Phase I cleaning and lining of 8", 10", and 12" sewer segments recommended in SSES in fall 2008. FY 2009 — Phase II design and construction of sewer segments recommended for replacement; complete rehabilitation on manholes recommended for repair in SSES; complete all point repairs and lateral replacements recommended in SSES. FY 2012 — Phase III rehabilitation of Lower Cabin John Sewer Basin associated with Lower Cabin John stream project; 18" sewer is to be either replaced and realigned or cleaned and lined.

Status: Implementation. This project first appeared in the FY 2004 CIP. In Spring 2005, emergency repairs were conducted at Dogwood Park. The SSES, completed in FY 2008, provides recommendations for rehabilitation.

Coordination: Adjacent Neighborhoods; Development Review Committee; WSSC; Sewer Evaluation — Cabin John project (220-850-3F45); Sewer Capacity Study — Cabin John project (220-850-8A45); Cabin John — Lower Stream project (330-850-8A59) in the SWM Program Area; Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area.

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8500.

Project Name: Sewer Rehab — Rock Creek
Project Number: 220-850-0B45
Program Area: Utilities

8



Prior Appropriations: 1,244,025
Add New Appropriations: -
Add Future Appropriations: 1,657,500
Current Project Total: 2,901,525

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 1,244,025
Less Expended: 554,742
Prior Year Funds Carried Over: 689,283
Add New Appropriations: -
Total FY 2009 Appropriations: 689,283

Percent Expended: 19%

Description: This project funds system improvements recommended through the Sewer System Evaluation Survey (SSES) and an Infiltration and Inflow (I/I) analysis in the Rock Creek Sewer Basin. The SSES and I/I analysis systematically identify the condition of the sewer system and provide comprehensive rehabilitation methods. I/I consists of rain and groundwater that enter the sewer system through surface runoff or structural defects within the sewer pipe and manholes. Excessive I/I reduces the capacity of the sewer pipe available to convey sanitary sewage. System rehabilitation improves the condition of the sewer system, which increases the life cycle of the infrastructure and reduces I/I, which decreases the flow in the Rockville and Washington Suburban Sanitary Commission (WSSC) sewers, and ultimately the flow to the Blue Plains Wastewater Treatment Plant. Typical repairs consist of heavy cleaning and subsequent lining of the sewers with a cured in place liner; point repairs to lateral connections and various manhole rehabilitation methods. This project also funds the design and replacement of sewer segments that have been identified as in poor structural condition by the SSES.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	35,000	-	-	-	-	-	-	35,000
Construction	1,209,025	-	-	1,657,500	-	-	-	2,866,525
Total	1,244,025	-	-	1,657,500	-	-	-	2,901,525

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	1,244,025	-	-	1,657,500	-	-	-	2,901,525
Total	1,244,025	-	-	1,657,500	-	-	-	2,901,525

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: Operating costs should decrease; however, the amount and timing cannot be determined until the SSES and I/I analysis are complete.

Schedule: Prior year work completed — Sewer pipe and manhole lining in the Lower Rock Creek sewer shed (Twinbrook and Rockville Pike). FY 2011 — Sewer pipe lining in Upper Rock Creek area.

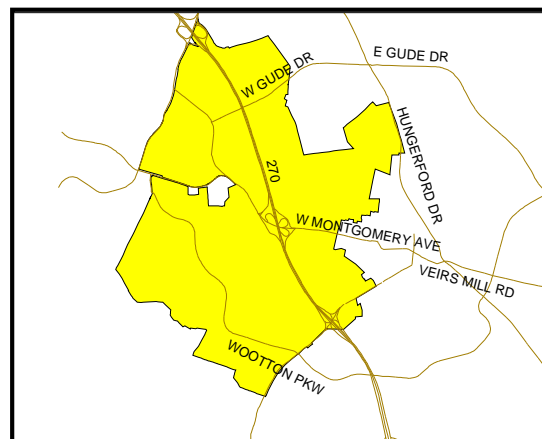
Status: Implementation. This project first appeared in the FY 2003 CIP. The sewer pipe and manhole lining in the Lower Rock Creek sewer shed will begin in April 2008 with completion planned for fall 2008.

Coordination: Adjacent Neighborhoods; Maryland Department of the Environment; Army Corps of Engineers; Development Review Committee; Sewer Evaluation — Rock Creek project (220-850-0A45); Sewer Capacity Study — Rock Creek project (220-850-8B45); Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area.

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8500.

Project Name: Sewer Rehab — Watts Branch
Project Number: 220-850-7B45
Program Area: Utilities

8



Prior Appropriations: -
Add New Appropriations: -
Add Future Appropriations: 2,964,000
Current Project Total: 2,964,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: -
Total FY 2009 Appropriations: -

Percent Expended: 0%

Description: This project funds system improvements recommended through the Sewer System Evaluation Survey (SSES) and an Infiltration and Inflow (I/I) analysis in the Watts Branch Sewer Basin. The SSES and I/I analysis systematically identify the condition of the sewer system and provide comprehensive rehabilitation methods. I/I consists of rain and groundwater that enter the sewer system through surface runoff or structural defects within the sewer pipe and manholes. Excessive I/I reduces the capacity of the sewer pipe available to convey sanitary sewage. System rehabilitation improves the condition of the sewer system, which increases the life cycle of the infrastructure and reduces I/I, which decreases the flow in the Rockville and Washington Suburban Sanitary Commission (WSSC) sewers, and ultimately the flow to the Blue Plains Wastewater Treatment Plant. Typical repairs consist of heavy cleaning and subsequent lining of the sewers with a cured in place liner; point repairs to lateral connections and various manhole rehabilitation methods. This project also funds the design and replacement of sewer segments that have been identified as in poor structural condition by the SSES.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	-	100,000	-	-	-	-	100,000
Construction	-	-	394,000	-	-	-	2,470,000	2,864,000
Total	-	-	494,000	-	-	-	2,470,000	2,964,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	-	-	494,000	-	-	-	2,470,000	2,964,000
Total	-	-	494,000	-	-	-	2,470,000	2,964,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	-	-	-	-

Explanation of impact: Operating costs should decrease; however, the amount and timing cannot be determined until the SSES and I/I analysis are complete.

Schedule: FY 2010 — Woodley Gardens Stream Restoration sewer lining. Future Yrs — Construct repairs recommended in the Watts Branch SSES and I/I analysis.

Status: Concept. This project first appeared in the FY 2007 CIP.

Coordination: Adjacent Neighborhoods; Maryland Department of the Environment; Army Corps of Engineers; Development Review Committee; Sewer Evaluation — Watts Branch project (220-850-7A45); Sewer Capacity Study — Watts Branch project (220-850-8C45); Woodley Gardens Stream project (330-850-2G59) in the SWM Program Area.

Staff contact: Department of Public Works. Jim Woods, Civil Engineer II, 240-314-8500.

Project Name: Southlawn Lane Sewer Main
Project Number: 220-850-3E45
Program Area: Utilities

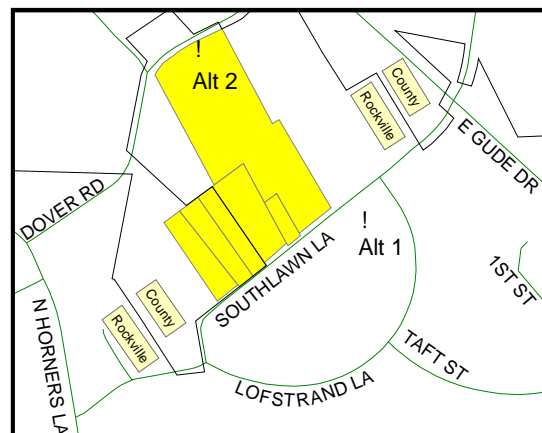
Prior Appropriations: 320,000
Add New Appropriations: -
Add Future Appropriations: 1,041,200
Current Project Total: 1,361,200

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 320,000
Less Expended: 61,701
Prior Year Funds Carried Over: 258,299
Add New Appropriations: -
Total FY 2009 Appropriations: 258,299

Percent Expended: 5%

8



Description: This project funds the extension of the public sewer system in the Southlawn industrial community. Portions of the Southlawn area within Montgomery County are currently served by septic systems. The existing septic systems are experiencing periodic overflows and are failing, which creates serious public health concerns. These systems have exceeded their design lives and due to site conditions, no on-site retrofit or replacement options exist. The City's policy is that properties need to be annexed into the City's limits prior to connections for water and sewer service. Several alternatives, which include a pump station and gravity flow systems, are being analyzed for cost effectiveness and acceptability to property owners.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	241,500	-	-	-	-	-	-	241,500
Construction	78,500	-	1,041,200	-	-	-	-	1,119,700
Total	320,000	-	1,041,200	-	-	-	-	1,361,200

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Sewer Fund	320,000	-	792,000	-	-	-	-	1,112,000
Special Assess. (Sewer)	-	-	249,200	-	-	-	-	249,200
Total	320,000	-	1,041,200	-	-	-	-	1,361,200

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Sewer Fund	-	-	5,000	-	-	-

Explanation of impact: Depending on the alternative selected, this project could add \$5,000 to the FY 2011 operating budget to provide electricity for a new sewer pump station.

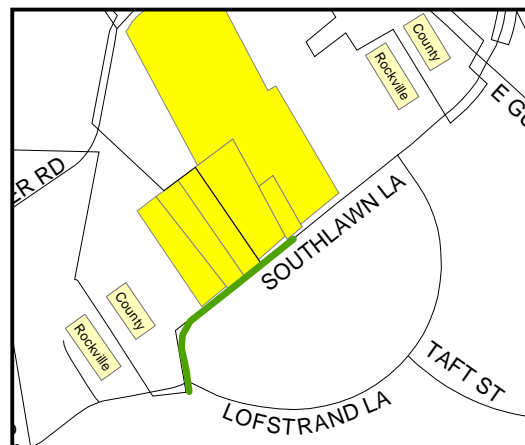
Schedule: Prior year work to be completed — Study and preliminary design of sewer alternatives. FY 2010 — Final design and construction of selected sewer alternative.

Status: Design and annexation coordination. This project first appeared in the FY 2003 CIP. *Funding Note:* Appropriate costs will be assessed against properties. Formerly, this project was combined as a water and sewer CIP project; however, beginning in FY 2009, the project has been separated into a water fund project and a sewer fund project for tracking purposes.

Coordination: Adjacent Landowners; Southlawn Lane Water Main project (210-850-3E45); Southlawn Lane project (420-850-6A11) in the Transportation Program Area; Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area; Montgomery County Departments of Environmental Protection, Public Works and Transportation, and Well and Septic.

Staff contact: Department of Public Works. Ilene Lish, Civil Engineer II, 240-314-8500.

Project Name: Southlawn Lane Water Main
Project Number: 210-850-3E45
Program Area: Utilities



Prior Appropriations: 161,000
Add New Appropriations: 39,000
Add Future Appropriations: 482,000
Current Project Total: 682,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 161,000
Less Expended: 11,500
Prior Year Funds Carried Over: 149,500
Add New Appropriations: 39,000
Total FY 2009 Appropriations: 188,500

Percent Expended: 2%

Description: This project funds the extension of the public water system in the Southlawn industrial community. The 2008 *Water Distribution Master Plan* recommended connecting two dead-end water lines on Southlawn Lane with a new 12" water line and installation of a pressure reducing valve. This will improve overall system pressure and fire flows in the water distribution system. In addition, properties on Southlawn Lane will be able to connect to the City's water system. Connection to the City's water system requires these properties to be annexed into the City of Rockville.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	103,000	39,000	13,000	-	-	-	-	155,000
Construction	58,000	-	469,000	-	-	-	-	527,000
Total	161,000	39,000	482,000	-	-	-	-	682,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	161,000	39,000	482,000	-	-	-	-	682,000
Total	161,000	39,000	482,000	-	-	-	-	682,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	400	-	-	-

Explanation of impact: This project will add \$400 to the FY 2011 operating budget to fund water main maintenance costs.

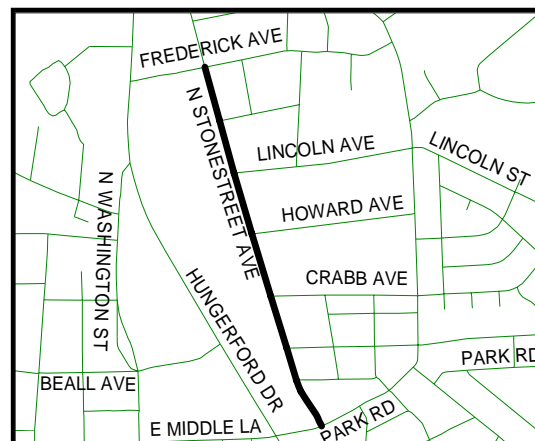
Schedule: FY 2009 — Final design of selected water main alternatives. FY 2010 — Construct selected water main alternatives.

Status: Design and annexation coordination. This project first appeared in the FY 2003 CIP. Formerly, this project was combined as a water and sewer CIP project; however, beginning in FY 2009, the project has been separated into a water fund project and a sewer fund project for tracking purposes.

Coordination: Adjacent Landowners; Southlawn Lane Sewer Main project (220-850-3E45); Southlawn Lane project (420-850-6A11) in the Transportation Program Area; Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area.

Staff contact: Department of Public Works. Ilene Lish, Civil Engineer II, 240-314-8500.

Project Name: Stonestreet Water Main Upgrade
Project Number: 210-850-5D34
Program Area: Utilities



Prior Appropriations: -
Add New Appropriations: 118,000
Add Future Appropriations: 864,000
Current Project Total: 982,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: 118,000
Total FY 2009 Appropriations: 118,000

Percent Expended: 0%

Description: This project funds the design and construction of approximately 3,500 feet of 12-inch water main along North Stonestreet Avenue to replace the existing 6-inch water main between Frederick Avenue and Park Road. This project, recommended in the *2008 Water Distribution Master Plan*, improves the flows in east Rockville.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	118,000	79,000	-	-	-	-	197,000
Construction	-	-	785,000	-	-	-	-	785,000
Total	-	118,000	864,000	-	-	-	-	982,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	-	118,000	864,000	-	-	-	-	982,000
Total	-	118,000	864,000	-	-	-	-	982,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

Schedule: FY 2009 — Design. FY 2010 — Construction.

Status: Design. This project first appeared in the FY 2004 CIP. The need for this project was re-assessed in the *2008 Water Distribution Study*. This street is on the asphalt maintenance schedule for FY 2011; water main work will precede the asphalt maintenance.

Coordination: Adjacent Neighborhoods; Development Review Committee; Water Distribution Study project (210-850-3B34); Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area; Stonestreet Improvements project (420-600-4A81) in the General Government Program Area.

Staff contact: Department of Public Works. John W. Hollida, Civil Engineer II, 240-314-8500.

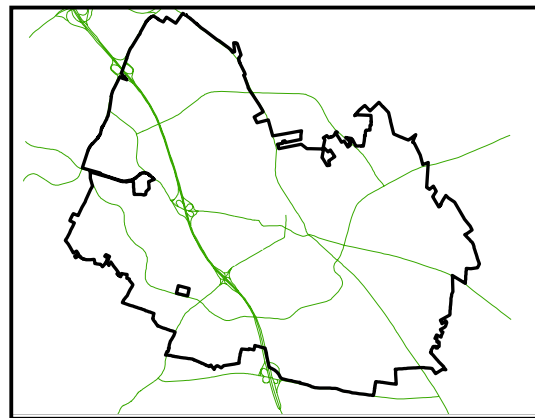
Project Name: Water Distribution Study
Project Number: 210-850-3B34
Program Area: Utilities

Prior Appropriations: 253,000
Add New Appropriations: -
Add Future Appropriations: -
Current Project Total: 253,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 253,000
Less Expended: 207,562
Prior Year Funds Carried Over: 45,438
Add New Appropriations: -
Total FY 2009 Appropriations: 45,438

Percent Expended: 82%



Description: This project funds the hydraulic analysis, leakage survey, and fire flow analysis for the City's public water distribution system, as well as updating the City's water modeling software. Such analysis is necessary periodically to determine the effects upon the public water system created by new pipe installation, aging pipe, the cleaning and lining program, and development occurring throughout the City. This project determines the adequacy of the system to meet demands for fire and domestic use, and creates a schedule to implement required future improvements. A comprehensive analysis was last completed in FY 1995.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	253,000	-	-	-	-	-	-	253,000
Total	253,000	-	-	-	-	-	-	253,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Bond Proceeds (Water)	253,000	-	-	-	-	-	-	253,000
Total	253,000	-	-	-	-	-	-	253,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

Schedule: Draft report received. FY 2009 — Software training and final payments.

Status: Training. This project first appeared in the FY 2003 CIP. Draft report received December 2007.

Coordination: Washington Suburban Sanitary Commission; Water Main Rehabilitation project (210-850-5C34); Stonestreet Water Main Upgrade project (210-850-5D34); Water Plant Upgrades project (210-850-4A40).

Staff contact: Department of Public Works. John W. Hollida, Civil Engineer II, 240-314-8500.

Project Name: Water Main Rehabilitation
Project Number: 210-850-5C34
Program Area: Utilities

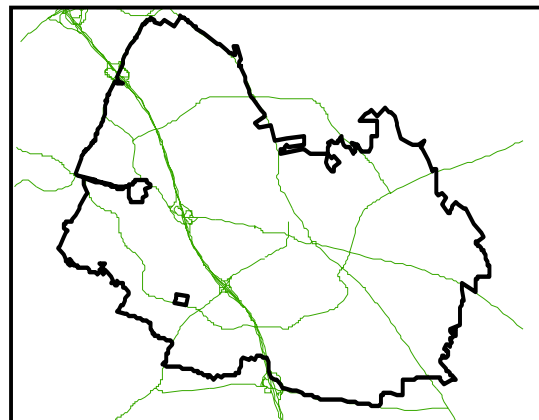
Prior Appropriations: 833,200
Add New Appropriations: 2,223,800
Add Future Appropriations: 70,935,000
Current Project Total: 73,992,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 833,200
Less Expended: 361,924
Prior Year Funds Carried Over: 471,276
Add New Appropriations: 2,223,800
Total FY 2009 Appropriations: 2,695,076

Percent Expended: 0%

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Description: This project funds the design and construction of water system improvements geared toward upgrading the City's aging water system. Improvement projects include rehabbing existing pipes; installing new mains needed to replace older pipes (more than 50 years old) and pipes made of spiral-welded steel (prone to leaks); increasing the diameter of undersized pipes; connecting dead end pipe segments and replacing pipes with a high frequency of water main breaks. This project includes water pipe rehab in Twinbrook, East Rockville, Lincoln Park, West End, Hungerford and Potomac Woods as well as various other locations. These improvements have been either recommended in the 2008 *Water Distribution Master Plan* or identified by the Public Works Maintenance Staff.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	562,200	-	527,600	467,080	349,920	442,080	7,952,240	10,301,120
Construction	271,000	2,223,800	2,996,400	2,801,920	2,566,080	2,581,920	50,249,760	63,690,880
Total	833,200	2,223,800	3,524,000	3,269,000	2,916,000	3,024,000	58,202,000	73,992,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	508,200	-	-	3,269,000	2,916,000	3,024,000	58,202,000	67,919,200
Bond Proceeds (Water)	325,000	2,223,800	3,524,000	-	-	-	-	6,072,800
Total	833,200	2,223,800	3,524,000	3,269,000	2,916,000	3,024,000	58,202,000	73,992,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: The completion of this project will have no measurable impact on the operating budget.

Schedule: FY 2009 — Design and construct pipe upgrades in Twinbrook and replace steel water main along Rockville Pike. FY 2010 — Design and construct pipe upgrades in Potomac Woods and Twinbrook. FY 2011 — Design and construct pipe upgrades in Twinbrook and East Rockville. FY 2012 — Design and construct pipe upgrades in East Rockville and Southlawn Office/Industrial Center. FY 2013 — Design and construct pipe upgrades in East Rockville and Lincoln Park. Future Year — Design and construct pipe upgrades in Twinbrook, West End, East Rockville, Lincoln Park, and Hungerford.

Status: Implementation. This project, formerly called Horizon Hill — Water, first appeared in the FY 2005 CIP. Beall Ave/Park Road — Water project (210-850-8A34) and Clean/Line Water Main Program project (210-850-3A34) were combined into this project in FY 2009.

Coordination: Adjacent Neighborhoods; Development Review Committee; Montgomery County Fire and Rescue Service; Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area.

Staff contact: Department of Public Works. John W. Hollida, Civil Engineer II, 240-314-8500.

Project Name: Water Plant Generator
Project Number: 210-850-4B34
Program Area: Utilities

8



Prior Appropriations: 465,362
Add New Appropriations: -
Add Future Appropriations: -
Current Project Total: 465,362

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 465,362
Less Expended: 317,906
Prior Year Funds Carried Over: 147,456
Add New Appropriations: -
Total FY 2009 Appropriations: 147,456

Percent Expended: 68%

Description: This project funds the purchase and installation of an emergency generator for the Water Treatment Plant.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Construction	465,362	-	-	-	-	-	-	465,362
Total	465,362	-	-	-	-	-	-	465,362

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	315,362	-	-	-	-	-	-	315,362
Bond Proceeds (Water)	150,000	-	-	-	-	-	-	150,000
Total	465,362	-	-	-	-	-	-	465,362

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: This project added \$6,000 to the operating budget to fund fuel and maintenance costs.

Schedule: Prior year work to be completed — Install generator.

Status: Generator purchased and delivered; installation is planned for summer 2008.

Coordination: Montgomery County National Capital Park and Planning Commission; Water Plant Upgrades project (210-850-4A40); Pump Station Upgrades project (220-850-4C34).

Staff contact: Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.

Project Name: Water Plant Maintenance and Repair
Project Number: 210-850-8A84
Program Area: Utilities

8



M

Prior Appropriations: 295,000
Add New Appropriations: 460,550
Add Future Appropriations: 611,200
Current Project Total: 1,366,750

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 295,000
Less Expended: -
Prior Year Funds Carried Over: 295,000
Add New Appropriations: 460,550
Total FY 2009 Appropriations: 755,550

Percent Expended: 0%

Description: This project funds rehabilitation and repair of existing plant facilities which includes: purchase and install two chemical storage tanks, heat exchanger and air compressor at the intake, chemical feed pumps, chlorine hoist, and variable frequency drives (VFDs) for the solids pumps; replace solids pumps, VFDs for the sludge press, and portions of the plant control panel. Also included is the repair and rehabilitation of one sluice gate on the south side of the intake structure and motor operated controls; drainage control; improvements to the HVAC system at the plant; rebuilding the low service pumps at the intake; installing grounding wire for the high service pump VFDs; and maintenance of the high service electrical equipment. These items need repair or replacement due to age-related problems. In order to comply with EPA and MDE regulations, the recycle piping will be relocated. Other items include high voltage testing at the intake and other future miscellaneous repairs.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	30,000	45,000	50,000	25,000	15,000	15,000	-	180,000
Construction	265,000	415,550	211,200	125,000	85,000	85,000	-	1,186,750
Total	295,000	460,550	261,200	150,000	100,000	100,000	-	1,366,750

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	295,000	460,550	261,200	150,000	100,000	100,000	-	1,366,750
Total	295,000	460,550	261,200	150,000	100,000	100,000	-	1,366,750

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: Completion of this project will have no measurable impact on the operating budget.

Schedule: Prior year work to be completed — Purchase and install items that are critical to the water plant operation: one solids pump; heat exchanger and air compressor at intake; design drainage repairs; design first storage tank replacement; relocate the recycle piping. FY 2009 — Complete recycle piping construction; purchase and install items that are less critical to the plant operation: first storage tank; VFDs for sludge press; one solids pump; intake low service pump rebuild; install grounding wire for high service pump VFDs; maintenance of high service electrical equipment; perform high voltage testing at the intake; purchase and install new chemical feed pumps; construct drainage repairs. FY 2010 — Inspect, design, and perform repairs to the south sluice gate at the intake structure; replace valve actuators; replace portions of the plant control panel; install VFDs on solids pumps; replace second storage tank. FY 2011 through FY 2013 — Miscellaneous repairs to be identified.

Status: Implementation. This project, formerly called Water Plant Rehab/Repair, first appeared in the FY 2008 CIP.

Coordination: Water Plant Upgrades project (210-850-4A40); Water Plant Generator project (210-850-4B34).

Staff contact: Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.

Project Name: Water Plant Upgrades
Project Number: 210-850-4A40
Program Area: Utilities

8



Prior Appropriations: 259,500
Add New Appropriations: 325,000
Add Future Appropriations: 14,025,000
Current Project Total: 14,609,500

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 259,500
Less Expended: 133,032
Prior Year Funds Carried Over: 126,468
Add New Appropriations: 325,000
Total FY 2009 Appropriations: 451,468

Percent Expended: 1%

Description: This project funds the study, design, and construction of improvements to the water plant to address environmental and capacity requirements. Environmental Protection Agency (EPA) and Maryland Department of the Environment (MDE) regulations will require upgrades to the water plant. The results from the Phase A Study indicate that improvements to the residuals handling system are needed to meet MDE recycle backwash regulations. Other changes to the clarifiers, filters, and chemical feed systems will be needed to meet new EPA Disinfection Byproducts Rule and Long Term 2 Enhanced Surface Water Treatment Rule. Due to the high proposed cost of these improvements, as recommended by the Phase A Study, a more detailed alternatives analysis is being prepared as part of the Phase B Study. EPA has established that improvements must be completed by 2013.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	259,500	325,000	1,220,000	320,000	510,000	-	-	2,634,500
Construction	-	-	2,330,000	5,055,000	4,590,000	-	-	11,975,000
Total	259,500	325,000	3,550,000	5,375,000	5,100,000	-	-	14,609,500

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	259,500	-	-	5,375,000	5,100,000	-	-	10,734,500
Bond Proceeds (Water)	-	325,000	3,550,000	-	-	-	-	3,875,000
Total	259,500	325,000	3,550,000	5,375,000	5,100,000	-	-	14,609,500

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	10,000	-	-	-

Explanation of impact: This project will add \$10,000 to the FY 2011 operating budget for electricity and maintenance.

Schedule: Prior year work to be completed — Phase B System Study. FY 2009 — Design Phase I residuals handling system regulatory upgrades. FY 2010 — Begin construction of Phase I residuals handling system regulatory upgrades, begin design of Phase II residuals handling system regulatory upgrades, begin design of electrical and hydraulic upgrades, perform high rate filter study, and begin design of filter improvements. FY 2011 — Begin construction of the Phase II residuals handling system regulatory upgrades, construct filter improvements, electrical, and hydraulic upgrades and begin design and construction of the chemical feed upgrades. FY 2012 — Complete construction of the Phase II residuals handling system upgrades.

Status: Study. This project, formerly called Water Plant System Upgrades, first appeared in the FY 2004 CIP. *Funding Note:* The Appropriation Schedule reflects costs based on the Phase A Preliminary Study. Phase B Study will explore the alternative improvements in more detail, which may change funding requirements.

Coordination: Water Plant Generator project (210-850-4B34); Water Plant Maintenance and Repair project (210-850-8A84); Washington Suburban Sanitary Commission; Maryland Department of the Environment.

Staff contact: Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.

Project Name: Water Pump — Glen Mill Road
Project Number: 210-850-9H34
Program Area: Utilities



Prior Appropriations: 3,521,026
Add New Appropriations: -
Add Future Appropriations: -
Current Project Total: 3,521,026

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: 3,521,026
Less Expended: 3,195,546
Prior Year Funds Carried Over: 325,480
Add New Appropriations: -
Total FY 2009 Appropriations: 325,480

Percent Expended: 91%

Description: This project funds the construction of a separate water booster station along Glen Mill Road south of Boswell Lane to increase the flow of water into Rockville in support of the projected development levels as estimated in the City's Master Plan. The current plant capacity is inadequate to meet current water requirements during peak summer use. Therefore, the City must purchase water from Washington Suburban Sanitary Commission (WSSC) to meet peak demand. Demand is expected to exceed operating capacity of the water treatment plant in 2012. A water conservation program will be implemented with a combined approach of increasing water production and decreasing demand. In addition, this project provides for a Supervisory Control And Data Acquisition (SCADA) system that integrates monitoring remote water system facilities (Glen Mill Road pump and storage tanks) and remote wastewater pump stations (Horners Lane and Fallsgrove).

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	178,963	-	-	-	-	-	-	178,963
Construction	3,342,063	-	-	-	-	-	-	3,342,063
Total	3,521,026	-	-	-	-	-	-	3,521,026

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	269,564	-	-	-	-	-	-	269,564
Bond Proceeds (Water)	1,550,000	-	-	-	-	-	-	1,550,000
State Loan	1,701,462	-	-	-	-	-	-	1,701,462
Total	3,521,026	-	-	-	-	-	-	3,521,026

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

Explanation of impact: All operating costs for operating and managing the pump station have been included in the City's operating budget in previous years.

Schedule: Prior year work to be completed — Resolution of hydraulic surge issues.

Status: Construction of the pump station is complete. Hydraulic surge issues, which were identified during construction, must be resolved prior to operating the pump station. Final payment to the design firm is pending resolution of the hydraulic surge issues.

Coordination: Washington Suburban Sanitary Commission; Maryland Department of the Environment; Montgomery County; Development Review Committee; Maryland Department of Natural Resources.

Staff contact: Department of Public Works. Mike Wilhelm, Chief, Contract Management, 240-314-8500.

Project Name: Water Tank Assessment
Project Number: 210-850-7A34
Program Area: Utilities

8



Prior Appropriations: -
Add New Appropriations: 250,000
Add Future Appropriations: 2,600,000
Current Project Total: 2,850,000

Status of Prior Year Appropriations as of 03/31/08:

Prior Year Appropriations: -
Less Expended: -
Prior Year Funds Carried Over: -
Add New Appropriations: 250,000
Total FY 2009 Appropriations: 250,000

Percent Expended: 0%

Description: This project funds a Water Quality/Age Study to determine how to ensure water quality standards, throughout the distribution system. Recent EPA regulations focus attention on water tanks with a long "turn-over" period. The study will look at Rockville's three water tanks: Hunting Hill, Carr Avenue, and Talbott Tank. Water retention time in these tanks must be reduced to meet EPA's Disinfection Byproduct Rule. The study will provide recommended improvements to meet the new regulations. This project also funds the inspection and rehabilitation of the water tanks as they require routine maintenance and repairs, which typically consist of draining, cleaning, patching, painting, and coating the tank walls.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	-	200,000	300,000	-	-	-	-	500,000
Construction	-	50,000	300,000	-	2,000,000	-	-	2,350,000
Total	-	250,000	600,000	-	2,000,000	-	-	2,850,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	-	250,000	600,000	-	2,000,000	-	-	2,850,000
Total	-	250,000	600,000	-	2,000,000	-	-	2,850,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	5,000	-	-

Explanation of impact: The completion of this project will add \$5,000 in the FY 2012 operating budget to fund electricity and maintenance and repair to the pumps.

Schedule: FY 2009 — Perform Water Quality/Age Study; inspect all three water tanks; perform minor repairs. FY 2010 — Design improvements recommended by the Water Quality/Age Study; perform major rehabilitation on all three water tanks, if warranted. FY 2012 — Construct Phase II of regulatory improvements.

Status: Study. This project first appeared in the FY 2007 CIP.

Coordination: Neighborhood Civic Associations and Adjacent Landowners; Development Review Committee; Neighborhood Resource Team; Water Distribution Study project (210-850-3B34); Montgomery County.

Staff contact: Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.

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